ABSTRACT OF THE DISCLOSURE

A microscope assemblage, in particular for confocal scanning microscopy, having a light source (1) for illuminating a specimen (6) to be examined and at least one fluorescent-light detector (11, 14) for the detection of fluorescent light (10, 13) generated in the specimen (6) and at least one transmitted-light detector (16) for the detection of transmitted light (15) passing through the specimen (6), is configured and developed, with a view toward reliably performing a wide variety of experiments with a high level of detection in each case, such that the fluorescent-light and transmitted-light detectors (11, 14; 16) are arranged in such a way as to make possible simultaneous detection of fluorescent and transmitted light (10, 13; 15).